No.



200400265

# <u>THIR UNITHEND SHAYIES OF AMIERICA</u>

TO AND TO WHOM THESE: PRESENTS SHAME COME:

AXPE Technology Holding Company, EEG.

MACCORS, THERE HAS BEEN PRESENTED TO THE

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE CHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR TING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVE THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'DP 445 BG/RR'

In Gestiment Autrest, I have hereunto set my hand and caused the seal of the Plant Anxiety Arotection Office to be affixed at the City of Washington, D.C. this nineteenth day of September, in the year two thousand and five.

Allost:

Commissioner

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

# APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

The following statements are made in accordance with the Privacy Act of 1974 (5U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

(Instructions and inform	nation collection burden stat	ement on reverse	*)			
1. NAME OF OWNER				2. TEMPORARY DI EXPERIMENTA		3. VARIETY NAME
D&PL Technology	Holding Company,	LLC.			93BR	12/30/
				0		OP 445 BOH/RR
4. ADDRESS (Street and No., or R.F.D	. No., City, State, and ZIP C	ode, and Country	')	5. TELEPHONE (in	clude area code)	150 445 BG/RR 11
PO Box 157 100 Main Street				(662	?) 742-4141	200400265
Scott, Mississippi 38 USA	772			6. FAX (include area	a code)	
USA				(662	742-3182	FILING DATE
7. IF THE OWNER IS NOT A "PERSO! ORGANIZATION (corporation, partners)		8. IF INCORPO STATE OF IN	RATED, GIVE NCORPORATION	9. DATE OF INCOR	RPORATION	JUNE 31,2004
Limited Liability	Company	Delav	ware	Febru	ary 29, 1996	
10. NAME AND ADDRESS OF OWNER	R REPRESENTATIVE(S) TO	SERVE IN THIS	S APPLICATION.	(First person listed will receive all	papers)	FILING AND EXAMINATION FEE:
Delta and Pine Land C Kelly Casavechia P.O. Box 157 Scott, MS 38772	Company		gr.			\$ 3,652.00 DATE 6/31/04/ CERTIFICATION FEE: \$ 682.00 DATE 8/8/05
11. TELEPHONE (include area code)	12. FAX (include area code		13. E_MA	ılL	14. CR	OP KIND (Common Name)
(662) 742-4141	(662) 742	2-3182	kelly	/.h.casavechia@deltaandp	ine.com	Cotton
15. GENUS AND SPECIES NAME OF C	CROP	16. FA	MILY NAME (Bota	anical)		THE VARIETY A FIRST GENERATION BRID?
Gossypium	hirsutum		Maiva	, ncae	'''	YES XNO
18. CHECK APPROPRIATE BOX FOR		MITTED (Follow i	<del></del>		Y THAT SEED OF THIS	VATIETY BE SOLD AS A CLASS OF
reverse). a. x Exhibit A. Origin and Breedin				CERTIFIED SEED? (See Se		
b. X Exhibit B. Statement of Distir				YES (if "yes", answe	r items 20	X NO (If "no", go to item 22)
c. x Exhibit C. Objective Descript d. x Exhibit D. Additional Descript				and 21 below)	THAT SEED OF THIS VAL	RIETY BE LIMITED AS TO NUMBER
e. X Exhibit E. Statement of the B				OF GENERATIONS?	THAT SEED OF THIS VAN	TETT BE LIMITED AS TO NOMBER
f. X Voucher Sample (2,500 viable				[ <sup>17]</sup> VF0		- Luo
verification that tissue culture repository)	wiii be deposited and mainta	aineo in an approv	· L	YES  21. IF "YES" TO ITEM 20, WHICH	CLASSES OF PRODU	NO CTION BEYOND BREEDER SEED?
g. X Filing and Examination Fee (\$	and the second s	reasurer of the Ur	nited	<b>—</b>		
States" (Mail to the Plant Vari 22. HAS THE VARIETY (INCLUDING A		L) OR A HYBRID	PRODUCED	FOUNDATION  23. IS THE VARIETY OR ANY COM	REGISTERED  IPONENT OF THE VARIE	CERTIFIED TY PROTECTED BY INTELLECTUAL
FROM THIS VARIETY BEEN SOLD OTHER COUNTRIES?	), DISPOSED OF, TRANSF	ERRED, OR USE	D IN THE U.S.	PROPERTY RIGHT (PLANT BR	EEDER'S RIGHT OR PAT	ENT)?
☐YES X	МО			XYES	NO	
IF YES, YOU MUST PROVIDE THE FOR EACH COUNTRY AND THE C				IF YES, GIVE COUNTRY, DA REFERENCE NUMBER. (PIE		
24. The owners declare that a viable sam for a tuber propagated variety a tissue	nple of basic seed of the var	iety will be furnish	ned with application	n and will be replenished upon requ	<u> </u>	
	e owner of this sexually repr	oduced or tuber p	propagated plant v		ety is new, distinct, unifo	rm, and stable as required in Section 42,
Owner(s) is(are) informed that false	representation herein can je	opardize protection	on and result in pe	nalties.		
SIGNATURE OF DWNER	1 2 00		SIGNATUR	RE OF OWNER	.: ••.	
Jobat 11	Lower		Mil	Um 1 Fle		
NAME (Please print or type)	_		NAME (Ple	ase print or type)		
Robert McGowen			Willi	am V. Hugie		
CAPACITY OR TITLE	DATE	,	CAPACITY	OR TITLE		DATE / _ / /
Cotton Breeder	/ / /	15/04	Vice	President/Director of	f Pasaarch	6/23/04

200400265

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable ( in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" ( See Section 97.6 of the Regulations and Rules of Practice .) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check paybable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

#### ITEM

- 18a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of realted varieties:
  - (1) Identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed ), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Secion 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

Bollgard® with Roundup Ready® cotton

THESE SEEDS ARE COVERED UNDER U. S. PATENTS 5,633,435; 5,500,365; 5,424,200; 5,359,142; 5,352,605; 5,530,196; 5,322,938; 5,196,525; 5,188,642; 5,164,316; 4,940,835; 5,717,084; 5,728,925; and 5,804,425.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed/is-sd.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to repond to a collection of information unless it displays a valid CM8 control number. The valid CMB control number for this collection of Information is (6581-6055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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S&T -470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (02-99) which is obsolete

# **EXHIBIT A**

# D&PL TECHNOLOGY HOLDING COMPANY, LLC'S APPLICATION FOR

10005 100 445 BG/RR LALL

# ORIGIN AND BREEDING HISTORY

01W93BR (01W93BR-066) was developed by the backcross breeding method. The donor parent DP 50 BGRR whose donor parents in turn was a plant of the cotton variety COKER 312 LINE 1445 and a line with insertion 531 of construct PV-GHBK06 containing a Bacillus thuringiensis var. kurstaki pesticide protein developed by the Monsanto Company imparting resistance to Lepidopteran insects. LINE 1445 was developed by the MONSANTO COMPANY using Recombinant DNA techniques to introduce a resistant version of the gene EPSPS which encodes the enzyme: 5-enolpyruvylshikimate-3-phosphate synthase (EPSPS). This modified EPSPS was originally isolated from the common soil borne microorganism <u>Agrobacterium sp.</u> strain CP4 and confers to LINE 1445 resistance or tolerance to the herbicide glyphosate [formulation of glyphosate, N (phosphonomethyl) glycine] commercialized under the trade name ROUNDUP.

The F<sub>1</sub>, BC<sub>1</sub>, and BC<sub>2</sub>, crosses were made in Delta and Pine Land Company's greenhouse in Scott, MS. BC<sub>2</sub>F<sub>1</sub> plants were grown and selfed in the greenhouses located at Scott, MS. BC<sub>2</sub>F<sub>2</sub> plants were grown and selfed in the field near Puntarenas, Costa Rica in 1999.

BC<sub>2</sub>F<sub>3</sub> progeny rows were grown at Scott, MS in the summer of 2000. Progeny rows were tested for trueness to type of the recurrent parent <u>SG 501</u>. Those true to type and also containing the "Roundup Ready Gene" in a homozygous form and tested positive for the presence of the "BollGard Gene" were selected for increase. The line 01W93BR-066 was sent to winter nursery in Costa Rica for increase during the 2000-01 season.

01W93BR-066 was evaluated across the cotton belt in replicated research plots in 2001, 2002, and 2003. Separate isolated increases of 01W93BR-066 were grown in 2001, 2002, and 2003. In 2004, 01W93BR-066 was given the experimental name of 01W93BR.

# STATEMENT OF UNIFORMITY AND STABILITY

01W93BR has been observed every generation since 2000 and has shown to be uniform and stable. No variants or off-type plants have been observed. Less than 2% of the plants do not contain the gene insertion 1445 which imparts resistance to the herbicide Roundup and the gene insertion 531 which imparts resistance to Lepidopteran insects.

### **EXHIBIT B**

# D&PL TECHNOLOGY HOLDING COMPANY, LLC'S APPLICATION FOR

01W93BR 17P 4115 BG/RR 12/30/04 DP 445 BG/RR LALL 110/05

# STATEMENT OF DISTINCTNESS

01W93BR is an early maturing smoothleaf cotton variety most similar to DP 444 BG/RR. 01W93BR plants carry the gene insertion 1445 of a construct developed by the MOSANTO COMPANY, which causes these plants to be tolerant to the herbicide ROUNDUP (glyphosate) and the gene of Insertion 531 of construct PV-GHBK04 containing a <u>Bacillus thuringiensis</u> var. <u>kurstaki</u> pesticide protein imparting resistance to Lepidopteran insects. DP 444 BG/RR, the comparison variety in this application, also contains the gene insertions of 1445 and 531 as described above.

Coker 312 Line 531 has the following transgenic insertion.

Phenotype:

Lepidopteran insect resistance constructs: PV-GHBK04

genotype:

- promoter: CMoV A 0.6 Kb 35S promoter region of cauliflower mosaic virus.
- gene: crylA © FL B.t.k. a 3.6 Kb gene encoding the full length Bacillus thuringiensis insect control protein.
- 3' non-translated region: E9 3' the 0.7 Kb 3' non-translated region of the pea rbcS-E9 gene Agrobacterium tumefaciens T-DNA.

#### Selectable marker:

- promoter 35S A 0.35 Kb 35S promoter region of cauliflower mosaic virus.
- gene: NPt II the 0.83 Kb neomycin phosphotransferase type II gene that confers kanamycin resistance.
- 3' non-translated region: NOS 3' from the nopaline synthase gene of *Agrobacterium tumefaciens* T-DNA.

LINE 1445 was developed by the MONSANTO COMPANY using Recombinant DNA techniques to introduce a resistant version of the gene EPSPS which encodes the enzyme: 5-enoipyruvylshikimate-3 phosphate synthase (EPSPS). This modified EPSPS was originally isolated from the common soil borne microorganism *Agrobacterium sp*. Strain CP4 and confers to LINE 1445 resistance or tolerance to the herbicide glyphosate {formulation of glyphosate, N (phosphonomethyl) glycine} commercialized under the trade name ROUNDUP.

Significant differences in fiber properties have been observed between 01W93BR and DP 444 BG/RR. 01W93BR has higher micronaire, longer fiber length, higher uniformity, higher fiber strength, and higher elongation than DP 444 BG/RR.

Trait	01W93BR	Greater or	DP 444	Level of
		Less than	BG/RR	Significance
Micronaire	4.39	>	4.05	**
Fiber length (inches)	1.156	>	1.143	**
Uniformity (%)	84.82	>	84.51	**
Fiber strength (g/tex)	32.48	>	30.89	**
Elongation	13.85	^	12.69	**

<sup>\*</sup> significant difference at 0.05 level of probability
\*\* significant difference at 0.01 level of probability

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (COTTON)

# **OBJECTIVE DESCRIPTION OF VARIETY** COTTON (Gossypium spp.)

VAME OF APPLICANT(S)		TEN	MPORARY DESIGNATION	N VARIETY NAME
D&PL TECHNOLOG	Y HOLDING COM	į	01W93BR	DP445 BG/RE 11/30/05 12/30/
ADDRESS (Street and No., or R	F.D. No., City, State, and	ZIP Code)	FOR	DP-445 BG/1/RF OFFICIAL USE ONLY
P.O. Box 157		,		O NUMBER
100 N. Main Street				
Scott, Mississippi 38	772		5	00400265
Place the appropriate data that dumerical measurements, should used to determine plant colors. Ch	naracters marked with an a	pical for the variety. Royal isterisk * indicate necessary	Horticultural Society or an y characters to be measured.	y recognized color fan may be
PECIFIC VARIETIES USED arieties which are adapted to you	FOR COMPARISON As area. One of the compa	S CHECK VARIETIES I	N THIS APPLICATION: most similar variety used in	Use standard regional check Exhibit B.
/ariety 1DP 444 BG/RR	Variety 2		Variety 3	
1. SPECIES:				· · · · · · · · · · · · · · · · · · ·
_X_	G. hirsutum L.	G. barbadense L	<i>.</i> .	
2. AREA(S) OF ADAPTATION	(A = Adapted, NA = N)	ot Adapted, NT = Not Tes	sted)	
_AEastern _NA_Plains Other (Specify):	A_1 A \		_ACentral _AArizona	_NT_Blacklands _NT_San Joaquin
		blo but are still £ 1.5		_
. GENERAL: Characteristics wh			meaningful description of	the variety.
	Application Variety	Comparison Variety 1	Comparison Variety 2	Comparison Variety 3
'lant Habit: preading, Intermediate, Compact	Intermediate	Compact		
oliage: parse, Intermediate, Dense	Sparse	Sparse		
tem Lodging: odging, Intermediate, Erect	Intermediate	Intermediate		
ruiting Branch: lustered, Short, Normal	Short			
GENERAL: (continued)				
rowth:				
T-470-8 (6-98) designed by the Plant Var	ety Protection Office using Wo	rd Perfect 6.0a. Replaces LS-470	0-8 (3-83), which is obsolete.	Page 1 of 4

Determinate, Intermediate,	_		REPLACEMENT 8/20/04 200400265 LAL
Indeterminate	_ Intermediate	_ Intermediate	200400200
Leaf Color: Greenish yellow, Light green, Medium green, Dark green	Light green	Light green	
Boll Shape: Length less than wie Length equal to width, Length more than width		Length more than width	
<b>Boll Breadth:</b> Broadest at base, Broadest at middle	_ Broadest at base _	_ Broadest at base _	
*4. MATURITY: (50 % Open to	polls; Preferred method; Des	cribe method if different me	thod was used.)
Date of 50 % open bolls	_September 20	_September 16	
5. PLANT:			
Cm to 1st Fruiting Branch: from cotyledonary node)	NA	NA	
No. of Nodes to 1st Fruiting Bracket excluding cotyledonary node)	anch: 4.7	4.3	
Mature Plant Height cm: from cotyledonary node to termin	nal)106	110	
*6. LEAF: Upper most, fully exp	anded leaf.		
Type: Normal, Sub Okra, Okra, Super Okra	Normal	Normal	
<b>?ubescence:</b> Absent, Sparse, Medium, Dense <u>OR</u> Trichomes/cr Bottom surface excluding veins)	n <sup>2</sup> Sparse	Sparse	
Nectaries: Present or Absent	Present	Present	
*7. STEM PUBESCENCE: Glabrous, Intermediate, Hairy	_ Intermediate		
*8. GLANDS: (Gossypol) Absent			
Leaf:	Normal	Normal	
Stem:		Normal	
Calyx Lobe: (normal is absent)	Normal	Normal	AND ALLEY AND AL
9. FLOWER:		Vd	1 0 m 10
Petals: Cream, Yellow	Cream	Cream	
Pollen: Cream, Yellow	Cream	Cream	
etal Spot: Present, Absent			

*10. SEED:			REPLACEMENT 8/20/6
Seed Index: g/100 seed, fuzzy basis)	10.9	10.6	200400265 LAL
Lint Index: g lint/100 seeds)	4.3		
11. BOLL:			
int Percent: _X Picked Pulled	39.9	39.7	
)R			
Fin Turnout: Picked Stripped			
lumber of Seeds per Boll	33.5	33.4	
Frams Seed Cotton per Boll	4.2		
lumber of Locules per Boll	4-5		
oll Type: Stormproof, Storm Resistant, Op	pen) Open		
2. FIBER PROPERTIES:			
pecify Method (HVI or other): _	HVI		
Length: (inches, 2.5% SL)	1.156		
Uniformity: (%)	84.82		
Strength, T1 (g/tex)	32.48		
Elongation, EI (%)	13.85	12.69	
Micronaire:	4.39	4.05	
ineness (Source	)		
arn Tenacity: (cN/tex, 27 tex)			
arn Strength: (lbs. 22's)			
			foderately Resistant, R = Resistant)
_NTAlternar		_NTFus	
_NTAnthraci	nose	_NTPhy	matotrichum Root Rot
_NTAscochy	ta Blight	_NTPyth	hium (specify species)
_NTBacterial	Blight (Race 1)	_NTRhiz	zoctonia solani
_NTBacterial	Blight (Race 2)	_NTSout	thwestern Cotton Rust
Bacterial	Blight (Race)	_NTThielayiop	sis basicola
3. DISEASES: (continued)			

_NTDiplodia Boll Rot	_NTVerticillium Wilt 200400265 LAL
Other (specify)	
4. NEMATODES, INSECTS AND PESTS: (NT = Not Tested, S = Su R = Resistant)	sceptible, MS = Moderately Susceptible, MR = Moderately Resistant,
Root-Knot Nematode	Reniform Nematode
Boll Weevil	Grasshopper (specify species):
Bollworm	Lygus (specify species):
Cotton Aphid	Pink Bollworm
Cotton Fleahopper	Spider Mite (specify species):
Cotton Leafworm	Stink Bug (specify species):
Cutworm (specify species):	Thrips (specify species):
Fall Armyworm	Tobacco Bud Worm
Other (specify):	_
. COMMENTS: Present any additional information that cannot adecur variety.	quately be described in 1 through 13 which significantly distinguishes

### EXHIBIT D

# D&PL TECHNOLOGY HOLDING COMPANY, LLC.

Application for:

01W93BR DP 445 BG/RR. 1110105 1DP 445 BGH/RR. 12/30/

Table 1. Head to head comparisons of 91W93BR with DP 444 BG/RR

								<del> </del>			IInif	ormity				
!					Lint T	<sup>Turnout</sup>	Micr	onaire	Le	ngth	1	atio	Str	ength	Elon	gation
	REG-				1	DP 444	1			DP 444	1		J.	1	1	
YEAR		EXPT	COUNTY	STATE	BR	BG/RR	BR	BG/RR		BG/RR	BR	BG/RR		BG/RR	<del></del>	BG/RI
		12CY0327	LONOKE	AR	41.9	39.5	4.9	4.4	1.19	1.17	85.0	84.5	31.6	29.8	13.3	11.6
		12LE0325 12MN0326	WASHINGTON MISSISSIPPI	MS AR	39.2 38.4	38.5 38.3	5.2 4.5	4.4	1.21	1.23 1.19	84.5 85.0	85.8 84.2	33.8 31.6	31.6 30.3	10.9 12.7	11.2
		12SK0330	SCOTT	MO	39.0	39.7	3.9	3.5	1.22	1.19	86.8	86.7	31.7	30.5	14.6	13.6
2002	AZ	23CO0704	PINAL	AZ	42.8	40.9	3.9	7.7	1.20	1,21	80.8	80.7	31.7	30.5	14.0	13.0
2002	AZ	23MA0703	PINAL	AZ	41.2	40.7				<u> </u>		<del> </del>				
		22CY0313	LONOKE	AR	41.7	42.2	4.8	4.3	1.20	1.16	88.0	86.1	32.6	30.0	13.2	13.9
		22SK0314	SCOTT	МО	39.9	41.8	4.1	3.5	1.19	1.15	85.4	87.7	34.2	32.2	15.6	14.9
2002	NODE	23MN0312	MISSISSIPPI	AR	43.9	43.0	4.5	4.2	1.15	1.15	91.0	88.6	31.9	29.7	14.5	12.9
2002	NODE	23SM0311	BOLIVAR	MS	40.1	40.8	4.8	4.2	1.18	1.16	89.8	88.4	35.7	34.2	14.0	11.6
2002	NOSE	23GB0115	WAYNE	NC	39.7	39.4	4.9	4.3	1.16	1.12	90.8	90.2	32.2	29.6	17.0	15.2
		23HV0114	DARLINGTON	SC	39.3	37.9	4.2	3.7	1.11	1.09	85.1	86.3	32.7	30.2	14.9	13.6
		23NE0430	TENSAS	LA	41.2	40.4	4.7	4.0	1.17	1.16	88.0	88.0	30.6	31.0	13.9	12.3
		24PB0413	SHARKEY	MS	40.9	41.4	4.4	4.2	1.19	1.16	87.2	86.0	32.4	29.7	13.2	12.0
		24PU0414	SHARKEY	MS	38.9	38.6	4.3	3.7	1.15	1.15	87.4	87.0	32.0	30.7	12.6	12.0
		23TF0212	TIFT	GA	41.9	42.3	4.2	3.8	1.15	1.12	85.6	86.4	29.5	27.4	14.4	13.2
		23SN0643	MARTIN	TX	43.6	43.8	4.3	4.6	1.10	1.10	85.3	84.6	31.1	28.5	14.0	12.2
2003	AZ AZ	34CO0706	PINAL	AZ	40.3	39.6	5.1	4.9	1.19	1.14	84.3	83.8	32.1	29.1	14.0	12.8
2003		34MA0729 1055023377	PINAL	AZ	37.8	38.2	5.1	4.8	1.21	1.25	85.3	84.8	29.9	32.1	13.7	10.7
			FRESNO	CA CA	37.0 36.7	37.0 35.3	4.4	4.3 3.9	1.14	1.13	83.0	83.0	31.6	29.5		<del> </del>
		2047000155	KERN WILLIAMSON	TX	33.2	32.0	4.4 3.8	3.5	1.13 1.10	1.13 1.08	83.0 82.0	83.0 82.0	33.0 30.1	30.6 28.4		-
			BRAZOS	TX	35.4	35.6	4.6	4.0	1.10	1.08	83.0	83.0	29.9	28.6		<del> </del>
			MADISON	TN	38.8	39.7	3.9	3.5	1.11	1.11	81.2	81.2	31.9	30.7		1
$\overline{}$			MISSISSIPPI	AR	38.7	38.4	4.9	4.5	1.14	1.11	84.0	83.0	34.3	31.9		1
			PEMBISCOT	MO	38.1	36.3	3.4	3.4	1.17	1.17	82.5	82.2	30.0	31.0		<u> </u>
			LONOKE	AR	41.2	43.1	4.7	4.2	1.20	1.18	85.0	85.5	34.8	33.9	12.6	10.9
			MISSISSIPPI	AR	41.6	42.4	4.5	4.2	1.18	1.16	85.0	84.8	31.6	33.5	11.4	12.2
2003	NODE	34SK0308	SCOTT	MO	42.7	42.4	5.1	4.6	1.27	1.25	88.5	86.5	39.1	34.5	11.4	11.8
2003	NODE	34SM0305	BOLIVAR	MS	40.0	39.2	4.3	4.1	1.15	1.14	84.8	84.9	32.1	32.5	12.1	11.5
			DARLINGTON	SC	39.5	39.7	4.2	4.0	1.16	1.15	83.4	83.7	31.9	32.8		
			WAYNE	NC	39.8	40.3	3.1	3.3	1.15	1.12	83.4	82.6	36.0	32.5	15.3	13.7
			DARLINGTON	SC	41.2	41.3	4.2	4.0	1.17	1.19	84.6	84.8	36.4	34.6	14.5	12.9
			HALIFAX	NC	43.8	42.6	4.7	4.0	1.13	1.12	85.4	84.3	35.7	33.0	15.4	14.1
			SAMPSON	NC	40.4	40.4	3.7	3.4	1.12	1.13	83.1	82.7	29.5	27.9	14.4	14.0
			WASHINGTON	MS	35.0	35.7	4.7	4.3	1.16	1.12	83.7	83.0	33.4	32.3	400	100
·			SHARKEY	MS	41.0	39.4	4.5	3.8	1.15	1.15	84.0	84.0	34.1	32.3	13.2	12.3
			SHARKEY	MS	39.5	38.9	4.2	3.6	1.18	1.15	84.0	83.0	34.9	33.2 32.0	13.3	12.3
			LIMESTONE   TIFT	AL GA	39.8 41.6	41.5	3.4 4.0	3.4 3.5	1.15 1.15	1.11 1.13	83.0 83.0	82.0 82.8	34.2 31.5	30.4	14.5	13.0
			ATKINSON	GA GA	42.1	42.7	3.9	3.8	1.15	1.15	84.3	83.8	33.2	31.5	14.1	12.3
			ATKINSON	GA	41.6	41.0	3.9	3.8	1.14	1.14	84.2	83.9	31.5	30.4	14.1	12.3
			NUECES	TX	39.1	38.1	5.0	4.7	1.10	1.10	82.0	82.0	31.4	29.9	1-7-1	12.3
			SAN PATRICIO	TX	35.1	36.7	4.9	4.6	1.13	1.08	83.0	82.0	32.1	30.0		
			JACKSON	OK	41.5	40.9	4.3	4.4	1.16	1.14	84.1	84.4	28.4	27.2	13.7	13.4
			HASKELL	TX	41.4	39.5	5.5	5.2	1.08	1.04	81.5	81.0	34.3	31.6	16.2	14.1
			KNOX	TX	41.8	40.1	4.1	4.4	1.16	1.16	84.4	85.0	29.7	27.2	15.0	13.1
	H-	Average			39.98	39.76	4.39	4.05	1.156	1.143	84.82	84.51	32.48	30.89	13.9	12.7
		No. Compariso	ons		47		4:		45		45		45		33	
	+	Difference			0.2		0.3	34	0.013		0.31		1.59			16
		Fratio - Analy	sis of Variance		2.00	56	79.8	355	21.1	138	6.0	93	65.	277	59.	850
															_	
	[.	Probablity of c	lifference - F test		0.1:		<0.0		<0.0		0.01		<0.0			2001
	Values in red are derived from the Analysis of Variance routine in the EXCEL - ANALYSIS TOOL PAK add-in						ed from t		of Varian	ceroutine i	n the EXC	EL - ANA	LYSIS TO			

HE DESCRIPTION OF ASSISTANCE	date on all reproductions.	FORM APPROVED - OMB No. 0581-005
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE  EXHIBIT E	Application is required in order to certificate is to be issued (7 U.S.C confidential until the certificate is	
STATEMENT OF THE BASIS OF OWNER		,
1. NAME OF APPLICANT(S)  D&PL TECHNOLOGY HOLDING COMPANY, LI	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME LAW 10/05 LA
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and C	Country) 5. TELEPHONE (Include area code)	6. FAX (Include area code)
The Bit Look (officer and hot, of his lot. No., only, office, and his can		
P.O. Box 157	(662) 742-4141	(662) 742-3182
Scott, Mississippi 38772	7. PVPO NUMBER 2004 00 2	265
8. Does the applicant own all rights to the variety? Mark a	an "X" in the appropriate block. <b>If no, please ex</b>	plain. YES NO
9. Is the applicant (individual or company) a U.S. national	or a U.S. based company? If no, give name of	f country. X YES NO
10. Is the applicant the original owner?	NO If no, please answer o	ne of the following:
b. If the original rights to variety were owned by a cor	mpany(ies), is (are) the original owner(s) a U.S.	
11. Additional explanation on ownership (If needed, use th	ne reverse for extra space):	
01W93BR contains two proprietary genes and licensed to D&PL. One gene encodes and the other encodes an insect toxin.		
and licensed to D&PL. One gene encodes and the other encodes an insect toxin.		
and licensed to D&PL. One gene encodes	s a protein providing resistance to t	he herbicide glyphosate,
and licensed to D&PL. One gene encodes and the other encodes an insect toxin.  PLEASE NOTE:	s a protein providing resistance to to the following criteria:	he herbicide glyphosate,
and licensed to D&PL. One gene encodes and the other encodes an insect toxin.  PLEASE NOTE:  Plant variety protection can only be afforded to the owners  If the rights to the variety are owned by the original bree national of a country which affords similar protection to recommendations.	s (not licensees) who meet the following criteria: eder, that person must be a U.S. national, national of the U.S. for the same genus and spanich employed the original breeder(s), the comp	he herbicide glyphosate,  all of a UPOV member country, or ecies.  any must be U.S. based, owned by
and licensed to D&PL. One gene encodes and the other encodes an insect toxin.  PLEASE NOTE:  Plant variety protection can only be afforded to the owners . If the rights to the variety are owned by the original bree national of a country which affords similar protection to re. If the rights to the variety are owned by the company who nationals of a UPOV member country, or owned by nationals of a UPOV member country, or owned by nationals.	s (not licensees) who meet the following criteria: eder, that person must be a U.S. national, nation nationals of the U.S. for the same genus and sp nich employed the original breeder(s), the comp onals of a country which affords similar protection	he herbicide glyphosate,  all of a UPOV member country, or ecies.  any must be U.S. based, owned by on to nationals of the U.S. for the same

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